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REPORT NO. 3

ROUTING SECTION
CURRENT SERIAL RECORDS

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U.S. DEPT. OF AGRICULTURE

Cotton Fiber and Processing Test Results

CROP of

1974



Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38122 September 13, 1974

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1974

Discussion of Test Results

The Cotton Division of the Agricultural Marketing Service report the average values on the limited number of short staple samples tested to date to be longer and stronger than last season. The uniformity is lower. Shirley Analyzer nonlint content is lower than a year ago. Picker and card waste is higher. Yarns spun from these samples show both a higher skein strength and yarn appearance index than a year ago. Yarn imperfections are fewer.

Medium staple samples tested from the Southwest show average fiber length and fineness to be about the same as a year ago. Cottons are stronger than last season. Picker and card waste is higher. Yarns spun from these samples show yarn strength to be stronger. Yarn imperfections were fewer than a year ago.

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These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.^{1/} These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

^{1/} Summary of Cotton Fiber and Processing Test Results, Crop of 1973,
USDA, AMS, Cotton Division, May 1974.

Table 1.--Cotton:

Averages of fiber and processing tests from selected gin points in the United States through September 6, 1974

1/

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results					
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality		Spin. Potent.	Yarn No.	
		2.5% span	50/2.5 unif.		Pct.	Rdg.			Mpsi	G/tex			Pct.
								22s Carded Yarn					
Short Staple: Southwest 1973 1974	1	0.94	47	4.1	72	20	4.9	4.8	92	80	32	46	
	3	0.98	45	4.3	88	23	2.9	6.4	99	117	11	46	
	8	1.08	45	4.4	81	22	2.2	5.1	100	94	26	62	
	20	1.08	45	4.4	84	23	2.5	5.6	106	96	17	63	
Medium Staple: Southwest 1973 1974													
Significant dif- ference 2/		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3	

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1974

Production Area, Classification Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
				Digital		Mike	Fiber		Elon- gat'n 1/8"	S.A. Non- lint		Color		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten- tial
				2.5% span	Unif		Zero Gage	1/8" Gage		Pct	Pct	Gra	Yel		8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	
No	Grade	Stple	32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHWEST SOUTH TEXAS																							
TAYLOR																							
1	SLM LT SP	42	30	.95	45	4.1	85	22	6.2	3.1	3	4		85 PERCENT	92	278	7.2	5.8	120	110	21	15	44
WACO																							
1	SLM	41	32	.99	46	4.4	88	24	5.8	3.0	2	4		95 PERCENT	104	316	7.3	6.3	130	120	14	9	52
2	MID	31	32	1.00	45	4.5	92	23	6.0	2.6	1	4			100	309	7.7	6.2	130	120	10	9	43

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1974

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade	Stple	32s	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S. A. Non- Lint		Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Potent- ial
				2.5% span	Unif.		Zero Gage	1/8" Gage		Pct	Pct	No	No		Gra	Yel	22s or 27 tx	50s or 12 tx	Pct	Pct	22s or 27 tx	50s or 12 tx	
SOUTHWEST SOUTH TEXAS																							
EL CAMPO																							
1	SLM	41	34	1.07	44	4.6	90	23	4.7	2.5	3	3	3	85 PERCENT	32	5.1	98	3.6	110	80	14	10	58
2	SLM	41	34	1.10	45	4.5	93	23	5.2	2.7	3	3	3	5.8	93	31	5.3	3.6	100	90	16	13	57
CANADO																							
1	SLM	41	34	1.10	45	4.3	82	24	6.9	2.5	2	3	3	75 PERCENT	36	5.5	102	6.7	90	70	22	16	59
2	SLM	41	34	1.08	44	4.4	82	22	6.8	2.3	2	3	3	6.8	97	34	6.0	4.5	80	60	17	18	56
RIO HONDO																							
3	SLM	41	34	1.05	46	4.2	88	23	5.6	2.3	2	3	3	85 PERCENT	34	5.8	99	4.1	90	80	17	14	58
ROBSTOWN																							
3	SLM	41	34	1.09	43	3.7	80	22	6.5	3.4	2	3	3	95 PERCENT	38	6.0	102	6.6	80	60	27	18	63
SAN JUAN																							
3	SLM	41	34	1.07	45	4.3	87	24	5.9	2.1	1	3	3	70 PERCENT	37	5.8	102	5.9	110	90	10	8	63
SEBASTIAN																							
3	SLM LT SP	42	34	1.10	46	4.2	85	24	5.9	4.4	3	4	4	96 PERCENT	42	6.5	112	6.2	90	80	16	15	67
CENTRAL TEXAS																							
BATESVILLE																							
1	MTD	31	35	1.13	46	4.6	85	25	6.0	1.8	1	4	4	95 PERCENT	41	5.1	109	6.5	90	70	20	15	62

